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Volume 132, Number 28



NEATHER, p. 2

THU: 69°F | 57°F Sunny

FRI: 73°F | 57°F

Wednesday, June 13, 2012

Class of 2012 senior survey

Seniors reflect on MIT years and future plans

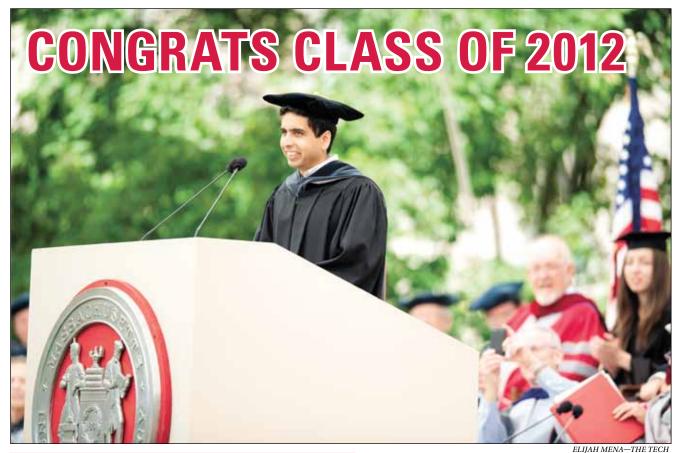
By Anne Cai

As the Class of 2012 finished their last semester as undergraduates, MIT administered to all seniors the online Senior Survey, asking them to reflect on their experience at MIT and their plans for the future. MIT conducts a senior survey once every two years. Of the 1046 seniors this year, 72.8 percent responded to the survey ("answered at least one question").

According to the survey, 38 percent expressed being "very satisfied" with their overall undergraduate education, with 49.7 percent "generally satisfied", 2.6 percent "generally dissatisfied", and only 0.1 percent "very dissatisfied".

Student perceptions of faculty availability, instruction, and support opinions were mostly overwhelmingly favorable, with 56.5 percent being "very satisfied" and an additional 35.5 percent "generally satisfied" with "opportunities to participate in research with a faculty member." In fact, 87.8 percent of respondents reported that they participated in research with a faculty member at some point while at

Senior statistics, Page 8

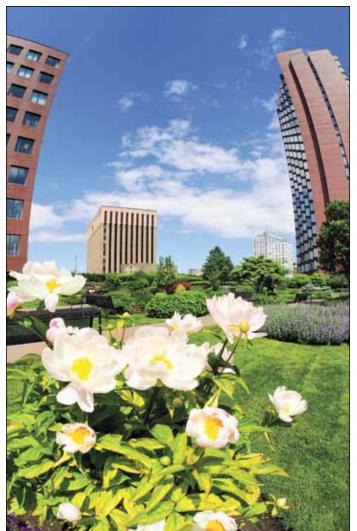


MIT COMMENCEMENT HIGHLIGHTS

Sal Khan's commencement speech will be online on the Tech's website. See pages 6 and 7 for more Commencement photos!

Salman Khan '98 delivered the 2012 Commencement address on June 8. The founder of the widely-used educational site Khan Academy told the graduating seniors to listen to others, to appreciate every opportunity, and to be responsible with the status and power of money.

Google walkway vs. rooftop garden



Google's plan to connect two of their buildings with a walkway will destroy part of the rooftop garden, which is atop a parking garage at 4 Cambridge Center. The Cambridge Redevelopment Authority will be holding a meeting at 2 p.m. today in the Richards Room at Residence Inn (6 Cambridge Center) to discuss the project.

Selecting Reif for president

Students, faculty, Corp. all support internal choice

By John A. Hawkinson STAFF REPORTER

How hard was it to select L. Rafael Reif as MIT's 17th president? By all accounts, everyone wanted Reif.

On May 16, the day Reif was announced president, The Tech conducted a swath of interviews with people in the selection process. This article summarizes them and recounts the events of the search.

Susan J. Hockfield announced her resignation on Thursday, Feb. 17, 2012. By March 8, MIT Corporation member James A. Champy '63 had been selected to chair the search committee, and the committee was assembled. By April 28, the committee had decided on Reif, and the Corporation's executive committee heard their recommendation on May 3. Finally, the full corporation voted on the morning of May 16, and the selection was announced to the world.

Leo Rafael Reif has been at MIT since 1980, and has served as a lab director, an associate department head and department head for Electrical Engineering and Computer Science, and currently serves as MIT's provost, the president's second-in-command.

From early on, there was a strong desire for an internal candidate, Corporation officials said, swinging the pendulum back - Hockfield had come from Yale and Charles M. Vest, MIT's 15th president, had come from the University of Michigan. Before that, Paul E. Gray '54 had been an internal candidate; Gray went on to serve as Chair of the MIT Corporation and is now an emeritus professor of electrical engineering here.

Faculty and student input

"I think the hardest thing, particularly as an Executive Committee member, is that I've known Rafael and worked fairly close with him over the last seven years," said Corporation member Barrie R. Zesiger. (Zesiger and her husband Al '51 are both corporation members, and they gave MIT a large gift that led

Selecting Reif, Page 9

IN SHORT

Summer 2012 UROP supervisor/ sponsored research funding is Thursday, June 21.

MBTA fare increases will take effect on July 1.

Silver Line SL1 service from Logan Airport is free until September 2012.

MIT President-elect L. Rafael Reif will officially take office on

Send news information and tips to news@tech.mit.edu.

Drive-by shooting in Inman Square leaves one teen dead

Charlene "Chay" Holmes, 16, was shot and killed in a drive-by shooting outside 34-36 Willow St. near Inman Square on Sunday night, roughly one mile from MIT. Her companion, Thanillee Cotto-Felix, 17, was also shot and remains in critical condition.

The two girls were walking down Willow Street when they stopped by a house to speak to someone on the

porch. Cambridge police were called around 8:15 p.m., and the two were brought to the hospital, where Holmes passed away.

There have been no

In a statement to The Boston Globe, spokeswoman for Middlesex District Attorney Gerard T. Leone Jr.'s office, Jessica Venezia Pastore said

Drive-by, Page 8

GLOBAL WARMING AT THE TOP OF THE WORLD

Photo exhibit of the effect on Mt. Everest is at MIT. ARTS p. 5

A TALE OF TWO HOMES

Why leaving one to go back to the other can still be rough. CAMPUS LIFE, p. 12

HOUSE'S LAWSUIT CONTINUES

David House proposes a settlement to the government. NEWS, p. 9



BRING THE HEAT AND SOME THUNDER

There's a storm brewing as the 2012 NBA Finals grow closer .SPORTS, p. 12

THE ART OF THE **CIVIL WAR**

Why you're happy some people picked sketchbooks over guns ARTS, p. 5

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Nobel cash reward shrinks 20 percent, to \$1.1 million

Even those charged with identifying the world's greatest geniuses sometimes make bad investment decisions.

On Monday the Nobel Foundation, which bestows the world's most prestigious academic, literary and humanitarian prizes, said it was reducing the cash awarded with Nobel Prizes by about 20 percent. Each prize, awarded in Swedish kronor, will now be worth about \$1.1 million, down from \$1.4 million.

The reduction was the result of ugly returns on its invested capital, which was valued at \$419 million as of Dec. 31, down 8 percent from the previous year. In the last decade, the costs of the prizes and related operating expenses have exceeded the endowment's average annual return.

"The Nobel Foundation is responsible for ensuring that the prize sum can be maintained at a high level in the long term," Lars Heikensten, the foundation's executive director, said in a statement. "We have made the assessment that it is important to implement necessary measures in good time."

—Catherine Rampell, The New York Times

Single women gaining limited acceptance in Iran

 ${\it TEHRAN}$ — When Shoukoufeh, an English literature student from a backwater town, set out to rent an apartment for herself here in the capital, she first stopped at a jewelry store and picked up a \$5 wedding ring.

Accustomed to living with lies to navigate the etiquette of Iranian society, where women are traditionally expected to live with their parents or a husband, the 24-year-old would prominently flash her fake white-gold band to real estate agents and landlords who would otherwise be reluctant to lease an apartment to a single woman.

"To them and my neighbors, my roommate and I are two married women away from their husbands to pursue our studies," she explained. "In reality, we are of course both single."

There are no official statistics on the number of women living by themselves in big cities in Iran. But university professors, real estate agents, families and many young women all say that a phenomenon extremely rare just 10 years ago is becoming commonplace, propelled by a continuous wave of female students entering universities and a staggering rise in

—Thomas Erdbrink, The New York Times

World health agency declares diesel fumes cause lung cancer

Diesel fumes cause lung cancer, the World Health Organization declared Tuesday, and experts said they were more carcinogenic than secondhand cigarette smoke.

The WHO decision, the first to elevate diesel to the "known carcinogen" level, may eventually affect some U.S. workers who are heavily exposed to exhaust. It is particularly relevant to poor countries, where trucks, generators, and farm and factory machinery routinely belch clouds of sooty smoke and fill the air with sulfurous particulates.

The United States and other wealthy nations have less of a problem because they require modern diesel engines to burn much cleaner than they did even a decade ago. Most industries, such as mining, already have limits on the amount of diesel fumes to which workers may be exposed.

The medical director of the American Cancer Society praised the ruling by the WHO's International Agency for Research on Cancer, saying his group "has for a long time had concerns about diesel.'

The cancer society is likely come to the same conclusion the next time its scientific committee meets, said the director, Dr. Otis W. Brawley.

—Donald G. Mcneil Jr., The New York Times

World Bank sees euro crisis taking global toll

By Annie Lowrey THE NEW YORK TIMES

WASHINGTON — The World Bank on Tuesday warned that fears about the eurozone had reduced investors' tolerance for risk, and it urged poorer economies to protect themselves by reducing their debts.

In the report, a scheduled update to the bank's overview of the global economy, the bank forecasts sluggish growth in high-income countries, like Japan, Germany and the United States, in the coming years. It expects more modest growth in the middle-income economies that have been the engine of the global recovery, like China and Brazil. And it sees developing countries in Africa, Asia and Latin America experiencing slower growth than they have for most of the past

"The world is at a very difficult juncture," said Andrew Burns, a lead author of the report, in an interview, citing fears about the stability of the eurozone, slower growth in emerging economies and pervasive market uncertainty as major factors.

The report concluded that "renewed market nervousness" about the euro area had "caused the price of risk to spike upwards globally." The bank largely maintained the dreary economic forecasts it made in January, when it significantly cut its growth expectations and warned of a shock "similar in magnitude to the Lehman crisis" as a worst case. It now expects global output to increase 2.5 percent in 2012 and 3 percent in 2013. In January, it forecast that global output would grow 2.5 percent this year and 3.1 percent next year.

From 2004 to 2007, before the financial crisis hit, the global economy grew at an annual rate of roughly 5 percent, according to International Monetary Fund data.

Compared with other forecasters, the World Bank's predictions are slightly more pessimistic. The IMF, for instance, foresees growth of 3.5 percent in 2012 and 4.1 percent in 2013. The global outlook had brightened early in 2012, the report said, as European leaders promised to devote more money to end their crisis and policy changes to further unite the Continent. In response, European bond yields fell and investment ticked up. But the calm of the winter has dissipated in the spring.

Investors have returned to punishing a variety of European bonds, pushing Spain to request a bailout for its faltering banks last weekend. Political uncertainty is rife as well, with a Greek exit from the eurozone increasingly mentioned as a possibility.

In the last few months, fearful investors have again cut their risk exposure, pulling money from around the world and parking it in the safety of assets like U.S. bonds. Capital flows to developing countries fell an astonishing 44 percent from April to May, Burns said in an interview.

Such market gyrations are likely to be fairly common in the postcrisis period, the bank said, and the effects will be felt globally. "Sharp swings in investor sentiment and financial conditions will continue to complicate the conduct of macro policy in developing countries," the report said.

JPMorgan chief expected to play down trade risks

By Jessica Silver-Greenberg and Ben Protess

THE NEW YORK TIMES

When JPMorgan's chief executive, Jamie Dimon, appears on Wednesday on Capitol Hill, he plans to play down the risky trading activities that could prompt as much as \$5 billion in losses.

In prepared testimony for a Senate hearing into the trading mess, Dimon called the losses an "isolated event" that would not hurt customers or taxpayers. While apologizing for various mistakes, he explained that risk was unavoidable in the banking business, and ultimately the firm's capital position and diversified model "did what they were supposed to do" and protected the company against unexpected losses in one area.

Those internal systems will be scrutinized by lawmakers. At the hearing on Wednesday, the Senate Banking Committee will focus on the firm's risk controls and management oversight. In particular, the committee, led by Sen. Tim Johnson, D-S.D., will take aim at statements by Dimon, who publicly dismissed concerns about the risky trades just a month before disclosing the multibillion-dollar losses.

"How can a bank take on , 'far too much risk' if the point of the trades was to reduce risk in the first place? Or was the goal really to make money?" Johnson said in prepared remarks. "As the saying goes, you can't have your cake and eat it too."

For months, the bank has tried to assuage investors and regulators about the risky trading activities inside its chief investment office.

After media reports surfaced in early April that the group was cornering a little-known credit market, the Office of the Comptroller of the Currency approached JPMorgan to ferret out potential threats. The bank assured the agency, the unit's primary regulator, that the situation was under control, according to a person briefed on the matter but not authorized to speak publicly about it. A senior bank executive later dismissed the similar concerns of a Federal Reserve examiner embedded within JPMorgan's New York headquarters, said three current regulators.

Dimon echoed their sentiments a week later. On an April 13 conference call with analysts, he called the concerns about the group a "complete tempest in a teapot."

But the reassurances came just days after the bank's own alarms sounded. On April 10, the position suffered losses of about \$300 million, according to a person briefed on the matter. That, in turn, set off an internal warning system for the bank's risk managers, people briefed on the matter said.

WEATHER

Rainy Wednesday, Picture-Perfect Weekend

By Vince Agard

STAFF METEOROLOGIST

The recent pattern of sunshine and seasonably mild weather will be interrupted today by the passage of a cold front through the New England region. This frontal feature will bring with it clouds and light to moderate rainfall for much of the duration of the day today. However, after the rain tapers off this afternoon and evening, the warm weather will pick up right where it left off, as high pressure begins to build in the front's wake.

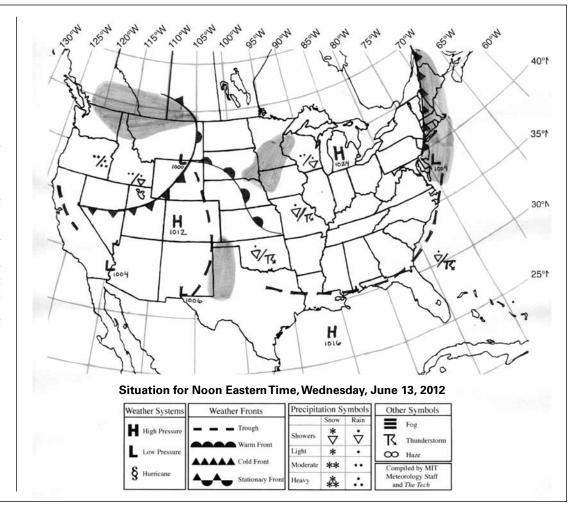
As the high pressure system takes hold, the resulting weather pattern will feature sunny skies and relatively calm winds. On days with particularly calm winds, afternoon seabreezes are likely to develop, keeping temperatures relatively cool (around the high 60s °F). However, offshore flow created by westerly winds could lead to the occasional 80-degree day near the beginning of next week. In all, look for pleasant weather to continue over the weekend, potentially persisting all the way through to the summer solstice on June 20.

Extended Forecast

Today: Rainy. High 64°F (18°C). Wind S at 5-10 mph. Tonight: Rain ending early, otherwise cloudy. Low 59°F (15°C). Wind N at 3-5 mph.

Tomorrow: Mostly sunny. High 69°F (21°C). Wind NE at 10-

Friday: Mostly sunny. Highs in the low 70s°F (22°C).



Heavier weapons push Syrian crisis toward civil war

By Mark Landler and Neil MacFarguhar

THE NEW YORK TIMES

WASHINGTON — With evidence that powerful new weapons are flowing to both the Syrian government and opposition fighters, the bloody uprising in Syria has thrust the Obama administration into an increasingly difficult position as the conflict shows signs of mutating into a full-fledged civil

Secretary of State Hillary Rodham Clinton said Tuesday that the United States believed that Russia was shipping attack helicopters to Syria that President Bashar Assad could use to escalate his government's deadly crackdown on civilians and the militias battling his rule. Her comments reflected rising frustration with Russia, which has continued to supply weapons to its major Middle Eastern ally despite an international outcry over the government's brutal crackdown.

"We have confronted the Russians about stopping their con-

tinued arms shipments to Syria," Clinton said at an appearance with President Shimon Peres of Israel. "They have, from time to time, said that we shouldn't worry; everything they're shipping is unrelated to their actions internally. That's patently untrue."

Russia insists that it provides Damascus only with weapons that can be used in self-defense.

As fighting intensified across Syria, there were reports that government forces were using helicopters to fire on a rebel-held enclave in the northwestern part of the country. The Syrian Observatory for Human Rights, based in Britain, reported that more than 60 people were killed in the fighting, one-third of them government soldiers, while the United Nations released a report saying that Syrians as young as 8 had been deployed as human shields for soldiers.

The fierce government assaults from the air are partly a response to improved tactics and weaponry among the opposition forces, which have recently received more powerful anti-tank missiles from Turkey, with the financial support of Saudi Arabia and Qatar, according to members of the Syrian National Council, the main opposition group in exile, and other activists.

The United States, these activists said, was consulted about these weapons transfers. Officials in Washington said that they continued to oppose funneling arms to the rebels, though they recognized that Syria's neighbors would do so, and that it was important to ensure that weapons did not end up in the hands of al-Qaida or other terrorist groups.

The increased ferocity of the attacks and the more lethal weapons on both sides threatened to overwhelm diplomatic efforts to resolve the crisis. Kofi Annan, the special envoy of the United Nations and the Arab League, continued to pressure Damascus to halt the violence and to respect a cease-fire. But Clinton said that if Assad did not stop the violence by mid-July, the United Nations would have little choice but to end its observer mission in the country.

Yemen says militants are driven from two cities

By Laura Kasinof

THE NEW YORK TIMES

Yasser Alarami contributed reporting.

SANAA, Yemen — The Yemeni government said Tuesday that the army had driven out militants linked to al-Qaida from two of their strongholds in southern Yemen, a region that has become a focal point of U.S. concerns about terrorism.

The taking of the southern cities of Jaar and Zinjibar by government troops represented an important victory for Yemen's new president, Abdu Rabbu Mansour Hadi, who has ratcheted up the fight against the militants since he took office in

But the militants still control large parts of southern Yemen, and it is unclear how long government forces will be able to retain the two cities

While the government has made claims of military success against the militants in the past that have not held up, the new claim was corroborated by area residents and the militants themselves.

The militant group Ansar al-Shariah posted a statement online confirming that it had withdrawn from the two cities, saying that it had done so "to prevent the spilling of Muslim blood." The statement said the group's fighters had withdrawn from Jaar before government forces reached the city.

The militants, who had controlled the two cities in Abyan province for more than a year, fled to the nearby city of Shaqra, just east of Zinjibar, official media reported.

Ansar al-Shariah has worked with al-Qaida's regional affiliate, al-Qaida in the Arabian Peninsula, an organization that has repeatedly tried to bomb U.S.-bound airliners.

Yemen's military, which is supported by the United States and Saudi Arabia, received crucial help in recent weeks from local tribal militias called popular committees.

"With God's help and guidance,

and with the cooperation of citizens of Abyan, after heroic fighting, the armed forces and popular committees gained control of the city of Jaar," Maj. Gen. Salim Ali Qatn, the southern commander, said in a statement on the Defense Ministry website.

In a separate statement, the governor of Abyan, Gamal Aqel, said, "We are involved in cleansing the entire province of Abyan from these terrorists who disturbed the security, stability and public order."

Hussein Mohammed, a resident of Jaar who was reached by telephone, confirmed that military vehicles entered the city from the north and said that he saw militants fleeing the area.

He and other residents said that before Ansar al-Shariah fighters fled, they left leaflets around the city apologizing for any harm endured by Jaar's civilian population.

Ansar al-Shariah moved into Jaar more than a year ago after it was abandoned by government forces.

Department of Justice sues Florida over voter purge

By Robbie Brown

THE NEW YORK TIMES

The Department of Justice on Tuesday followed through on warnings that it would sue Florida over the state's controversial plan to remove noncitzens from its voter rolls.

The lawsuit, filed in U.S. District Court in Tallahassee, intensified a legal battle between the Obama administration and Republican leaders in Florida, a crucial swing state.

Florida has asked county election officials to remove up to 2,600 voters who may be registered illegally. But the federal government's suit says the state's list is "outdated and inaccurate."

The suit also says that Florida cannot remove voters 90 days before an election (the state's primary will be held Aug. 14) and must have the Justice Department approve any changes to how voters register.

"The Department of Justice has

an overriding interest in protecting the rights of eligible citizens to register and vote free from unlawful burdens, while at the same time ensuring that ineligible persons do not register and vote in federal elections in violation of the law," said Thomas E. Perez, assistant attorney general for the Justice Department's Civil Rights Division.

The suit names the state and its secretary of state, Ken Detzner, as defendants.

On Monday, Florida filed its own lawsuit, against the Department of Homeland Security. Since September, the state has been asking for access to a federal immigrant database, maintained by that agency, that could help the state more accurately identify illegal voters.

Gov. Rick Scott, a Republican, in a television interview Tuesday, defended the state's efforts to remove ineligible voters and demanded that the state have access to the database.

"I have an obligation to enforce the laws of our land," he said on CNN. "You don't get to vote in Florida if you're a non-U.S. citizen."

Using driver's license data, the state compiled a list of 182,000 voters who it said might not be citizens. It winnowed that list to 2,600 and asked county supervisors to contact each person on it. Those who could not prove their citizenship within 90 days would be removed from the voter rolls

But county officials halted the effort May 31. A lawyer for the Florida State Association of Supervisors of Elections found that most people on the list who had been contacted so far were legal voters.

Florida says it is following due process. Voters suspected of being noncitizens are given 90 days to prove their citizenship. They receive a letter notifying them of the uncertainty of their citizenship and, if they do not reply, a public notice is posted in a newspaper.

Afghan president calls for an end to airstrikes

KABUL, Afghanistan — President Hamid Karzai of Afghanistan issued an impassioned call for the end of international airstrikes in his country Tuesday, branding them as an "illegitimate use of force" and saying that the need to protect civilian life demanded a complete halt to those operations, even in cases when troops are under attack

Hours later, the allied commander in Afghanistan, Gen. John R. Allen, reiterated significant changes to rules concerning the use of airstrikes announced earlier this week, issuing a statement in which he said he had given the order that "no aerial munitions be delivered against civilian dwellings." But he added the caveat that the strikes would be permitted as an absolute last resort in self-defense "if no other options are available."

The issue of airstrikes and civilian casualties is again figuring into tensions between the Americans and Afghans after an allied strike in Logar province this month killed 18 people, including nine children. A meeting of officials from both countries over the weekend led to the announcement of new restrictions on the use of allied airpower.

—Sangar Rahimi and Alissa J. Rubin, The New York Times

Street View case brought Google employee denials

Google has long prided itself on not being a conventional company. But there is one characteristic it apparently shares with the most sclerotic bureaucracy: the willingness of its employees to say, "Not my job."

The company on Tuesday released a trove of documents related to a federal investigation of its Street View mapping project. Although the project was intended to photograph the world's streets, from 2007 to 2010 Google gathered unencrypted Internet data from wireless networks, including the content of private communications, as its specially equipped cars passed through neighborhoods.

Among the documents released Tuesday are sworn declarations by nine people — their names and titles redacted but most of whom appear to be Google engineers — who said they were not aware of the data collection either because it was not part of their job or they did not review the project documentation, even when it was provided to them.

Also Tuesday, Google confirmed that the Information Commissioner's Office in Britain had reopened its investigation of the Street View project and had asked the company for additional information about the data it collected there.

—Edward Wyatt, The New York Times

Accusations against son taint Pakistan's chief justice

ISLAMABAD — Pakistan's chief justice has wielded his court as a whip against the country's rich and powerful, calling senior government officials and military spymasters to account and asserting himself as a political power in his own right. But on Tuesday he found himself at the center of a new political firestorm when a well-connected property baron stood up in court and accused his family of corrupt dealings, detailing \$3.7 million in kickbacks and cash payments.

The allegations marked a serious blow for the chief justice, Iftikhar Muhammad Chaudhry, who until now has been virtually venerated by many Pakistanis for his flamboyant court crusades against powerful figures.

In his testimony on Tuesday, the businessman, Malik Riaz Hussain, laid out a seemingly self-incriminating campaign of corruption, implying that he had bankrolled luxury vacations in London, gambling in Monte Carlo and substantial cash kickbacks to Chaudhry's 32-year-old son and his wife over the past two years.

Hussain said that Chaudhry's son, Arsalan Iftikhar, had extracted the payments in return for favorable treatment in a slew of court cases related to his property empire. "I was victimized and blackmailed by him," he said.

Hussain did not directly accuse Chaudhry of wrongdoing, but alluded to secret meetings "in the dead of night" between the two men.

—Declan Walsh, The New York Times

Republican senators criticize Holder over response to leaks

WASHINGTON — Republican members of the Senate Judiciary Committee on Tuesday strongly criticized the recent decision by Attorney General Eric H. Holder Jr. to appoint two U.S. attorneys to investigate recent disclosures of classified national security information, saying that the move was not enough and that he should appoint a special prosecutor.

At a committee hearing, the Republican senators — led by Sen. Lindsey Graham of South Carolina — accused the administration of leaking the information and said Holder was trying to shield the Obama administration from the scrutiny of a prosecutor who would be completely independent of the Justice Department.

Graham said an excerpt recently published by The New York Times from the book "Confront and Conceal" by David E. Sanger, a Times correspondent, about U.S. cyberattacks against Iran had convinced him that "there are clearly people around the president who are leaking stories that involve highly classified information."

"The concern we have is that you've got one program, Fast and Furious, that has been an embarrassment for the administration, and it's been like pulling teeth to get information about Fast and Furious, who did what and when," he said, referring to Operation Fast and Furious, a bungled gun trafficking case.

"But when you have programs on the national security front that seem to show the president as a strong leader, you read about it in the paper. So my concern, I think, is that a lot of us believe if there was ever a need for an outside special counsel, it is now. What do you say?"

-Michael S. Schmidt, The New York Times



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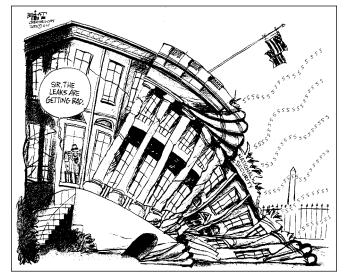
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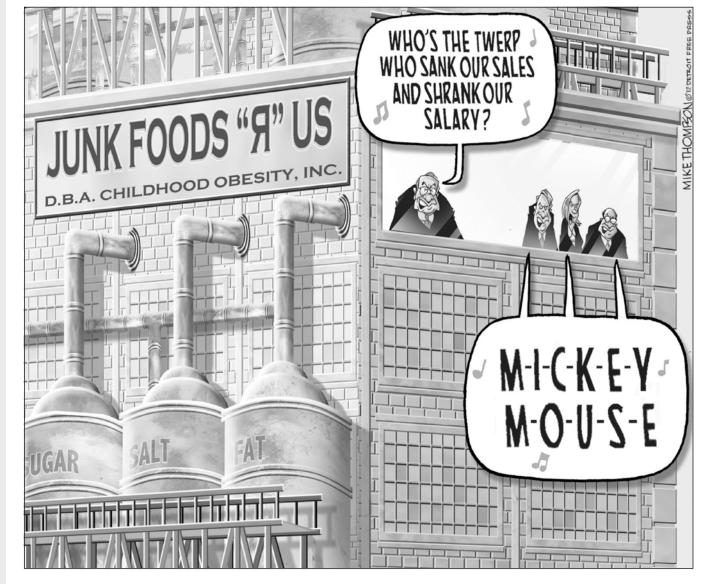
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CORRECTIONS

The table "Selected other university president's 2010 compensation" that accompanied last Friday's article about top salaries at MIT incorrectly listed the compensations for President Hockfield. Hockfield's 2010 paid and total compensations were \$832,629 and \$1,000,969, not \$1,260,427 and \$1,316,463, respectively.

Because of an editing error, an article about faculty involvement in the MIT 2030 process transposed the first initial and middle names of MIT's President-elect. He is L. Rafael Reif, not Rafael L. Reif.

Also on Friday, an article about the Residential Life Area Director (RLAD) developments misquoted UA president Jonté D. Craighead as saying, "it doesn't make sense for even the UA or DormCon to say 'this is the boiler plate for all solutions on campus." Craighead actually said, "it doesn't make sense for the UA or DormCon to say 'this is the boilerplate solution for all students

Craighead's quote referencing the anonymous email leak —

"But he probably improved some other night weeks in the future...At the end of the day, things are moving in the right direction" — was ambiguous. "Things moving in the right direction" followed comments on the successful meetings with administrators; thus, it referenced how the UA and DormCon were able to overcome the leak in discussions, not that the leak was the proper thing to do.

An article about the 2012 Commencement incorrectly stated that 80.5 percent of the senior class donated to the Senior Gift. The actual percentage was 80.4. The same article also stated that Lois Champy MAR '71 pledged \$30,000 to the Institute because the seniors met the 80 percent goal. In addition, Champy donated \$20,000 to the sailing fleet renewal for the occasion of the class meeting the 75 percent goal.

An article published on May 17 about the fire extinguisher incident in Baker incorrectly stated that the fire alarms were on Sunday morning. They occurred on Saturday morning.

The same article quoted Elizabeth M. Albany '12 saying that dents "took over the Student Center with blankets and pillows." She said they "took over the student center like a bunch of pajama-wearing hobos."

OPINION POLICY

Editorials are the official opinion of The Tech. They are written by the Editorial Board, which consists of Chairman Aislyn Schalck, Editor in Chief Jessica J. Pourian, Managing Editor Connor Kirschbaum, Executive Editor Ethan A. Solomon, and Opinion Editor Andy Liang.

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EXHIBIT REVIEW

Everest, everlasting?

Photography exhibition at the MIT Museum highlights climate change in the Himalayas

By Roberto Perez-Franco

STAFF WRITER

A visit to the art galleries on the second floor of the MIT Museum yields a pleasant surprise. "Rivers of Ice: Vanishing Glaciers

of the Greater Himalaya", featuring the photography of filmmaker-mountaineer David Breashears, successfully integrates art and science to paint a fascinating portrait of climate change in the Greater Himalaya region.

Much in the spirit of National Geographic, "Rivers of Ice" puts the glaciers in the context of the people who populate the vast Himalayas region and the importance of the water supply from the glaciers; it also explains the meaning of the retreats and advances of glacier, giving us a timeline of climate change and human

The photography portion of the exhibi-

tion highlights not only Breashears' work but also that of his adventurous twentieth-century predecessors Vittorio Sella, George Mallory and Major E.O. Wheeler. Together, these images capture the majesty and mysteriousness of the mountains.

Most memorable is the 360° panorama view of the Kharta glacier in the Mount Everest region. To stand in the middle of such a setup is almost dizzying.

> Vittorio Sella's 1909 photograph, The Duke of Altruzzi and guides climbing through the Chogolisa Icefall, shows icicles dripping from towering overhangs, like the teeth of icy dragons guarding caves full of treasure; an unknown photographer's 1935 image, Near the Upper Kharta Glacier, Everest region, showcases a vast, mystical expanse of pristine snow and skies.

Other images emphasize the power-

lessness of a single human amidst sublime nature. In a 2007 photograph, Main Rongbuk glacier ice pinnacles with climber, Jimmy Chin captures a figure scaling curiously-shaped ice forms, spread out on the ice like a lizard on the wall; in turn, the ice

forms themselves are dwarfed by the surrounding mountains. Most memorable is the 360° panorama view of the Kharta glacier in the Mount Everest region. To stand in the middle of such a setup is almost dizzying.

Amidst all these photographs and timelines of climate change are various mountaineering artifacts, reminders of the obstacles that mountaineers have tackled throughout history. There are climbing boots and rope, and for the photographer-mountaineers, cameras. Included in the display is a 15-pound Eastman 2-D view camera from 1921, similar to the one that Mallory used.

Near the end of the exhibition are

Rivers of Ice: Vanishing Glaciers of the Greater Himalaya

David Breashears

MIT Museum

April 13, 2012 – March 2013

printed the words of Humphry Davy: "Nothing is more fatal to the progress of the human mind than to presume that our views of science are ultimate, that our triumphs are complete, that there are no mysteries in nature and that there are no new worlds to conquer." It is something to keep in mind as climate change - and often our determination to ignore it - continues to loom above us.

BOOK REVIEW

The art of war, in charcoal and watercolor

Civil War Sketchbook brings us a splendid collection of original sketches from the front lines of the battlefield

By Roberto Perez-Franco

STAFF WRITER

Two days after the charter incorporating MIT was signed in April 1861, Confederate forces attacked a military installation in South Carolina. It was the first in a series of battles that would last four bloody years and decide the fate of a nation. Shiloh, Antietam, Vicksburg, Bull Run and Gettysburg are now the stuff of history, names that to this day evoke deep wounds - physical, psychological, moral — in the very fabric of America, many of which are still open. But there was a time when citizens on all sides of the war followed these names for breaking news, which often took the form of written and graphical reports in printed newspapers.

The Specials managed to find, in that darkest hour, some beauty and truth to be rescued.

Today, it is almost impossible to imagine the difficulties that the journalists and graphical reporters back then had to overcome to bring the citizenry fresh news from the frontlines of the Civil War. There was a time when the shock and awe of war was not broadcast in real time to the world, and when being embedded with the troops meant actually standing in the line of fire. Capturing battle in an image required more than the click of a button, and sending that image back to the editors took more than an attachment in an email.

As a tribute to the talented artists that risked their lives to capture these images in charcoal and watercolor, Harry Katz and Vincent Virga assembled the Civil War Sketch Book: Drawings from the Battlefront. This collection of

over 250 drawings and illustrations, many of them recently uncovered or published for the first time, touches upon all the major battles of what is arguably the most important event in American history in the 19th century. The book features the works of renowned artists such as the Waud brothers, Thomas Nast and the master himself, Winslow Homer.

These sketch artists were known as Specials "because their drawings were sent to magazines and newspapers by special delivery." They "exposed themselves to danger constantly" and "lived among the soldiers and suffered the same privations." By putting themselves "in the heat of the action," they produced sketches that "often provided the most accurate reporting of what had transpired" in the field. The engravings produced from the sketches of the Specials, while often polemical and censored or modified for quasi-propagandistic purposes, "helped shape our understanding of the war."

Two things in particular impressed me while reading this book. The first is the Specials' ability to capture images so full of action through such rudimentary means; how they achieved it is beyond my understanding. Photographic memory, patient recollection and a pinch of imagination must all have played a role in capturing a scene glimpsed just for a few seconds, or - as in Lumley's sketch of the assassination of Col. Ellsworth (p.11) — only fractions of a second. The other is that there is something universal in these images of war, despite being quintessentially 19thcentury American. It is impossible to look at Lumley's sketch of a falling soldier (p.79) without feeling in it the same pathos of lent death frozen in time that made famous Robert Capa's photo of a falling soldier, now an icon of the Spanish Civil War; or to compare Alfred Waud's sketch of Lincoln resting (p.ix) and the one by Edwin Forbes



During the Civil War, newspapers printed engravings such as Winslow Homer's A War for the Union 1862 - Cavalry Charge.

of a small Black boy sleeping (p.94) and not feel a sense of shared humanity.

Although war is endless horror, the Specials managed to find in that darkest hour some beauty and truth to be rescued. Now, their priceless work is in turn on display for a new century in this exquisite sketchbook, bursting with vividly reproduced images and insightful historical commentary. It is because of books like this one — clearly a work of love - that I am confident the printed tome will not be replaced by the digital file any time soon. For the soul of an art and history lover, there is no substitute for flipping through the pages, caressing the images with the fingertips, taking a closer look, and feeling through this contact that history is in your hands.

Civil War Sketch **Book: Drawings from** the Battlefront

By Harry L. Katz and Vincent Virga

W.W. Norton

May 2012



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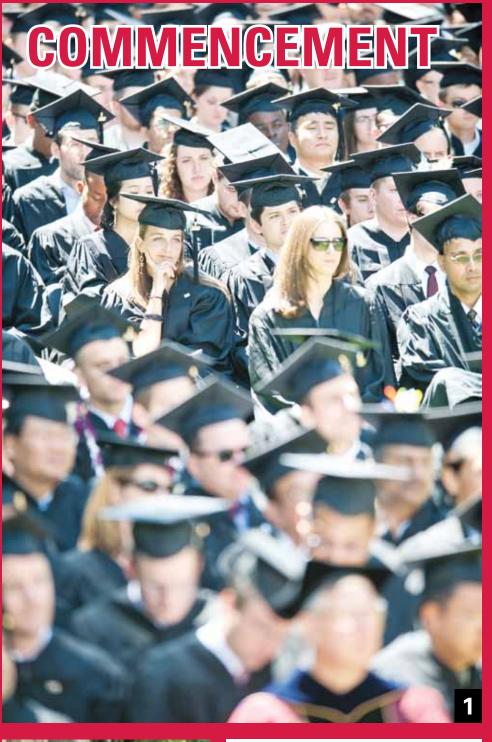
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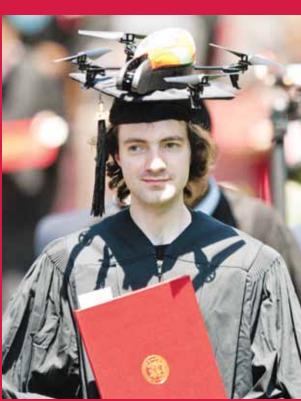


Dressed to Impress!
The class of 2012 goes out in a style that only MIT could fully appreciate





















ABOVE:

TO THE LEFT:

PHOTOGRAPHY BY WILLIAM YEE AND ELIJAH MENA—THE TECH

The graduating seniors decorated their mortar boards and gowns with many amusing objects.

PHOTOGRAPHY BY WILLIAM YEE AND ELIJAH MENA—THE TECH

- 1. Graduates suffer in the hot sun. The ceremonies were held under clear skies and narrowly missed rain in the afternoon.
- 2. Faculty members take their seats along the podium.

- The graduates line up inside the Johnson Athletic Center.
 Graduates sit outside the Z Center prior to lining up.
 Flowers are sold outside of Lobby 7 to friends and family of the graduates.
 R. Gregory Turner '74, president of the MIT Alumni Association, leads the procession and holds the ceremonial mace.
- Faculty members, adorned with red hats and gowns, assemble under a tent in front of Kresge.
 Spectators cool off from the hot day by grabbing free bottled water at booths located at both sides of Killian Court.
 A six-piece brass ensemble plays as the graduates march to Killian Court.

- 10. Family members look on as the graduates pass by the Z Center.
 11. Jessica A. Artiles '12 and fellow graduates march along Amherst Street.
 12. Alumni are applauded and take a seat along Killian Court. Red coats are given to alumni who graduated 50 or more years ago.





Drive-by, from Page 1

that police could not answer questions about a potential motive or about the search for the killer.

"We are encouraged by the leads we have, and we have every confidence we will solve this crime," she said.

Authorities are currently investigating who was the original target of the gunfire.

Holmes' funeral was held yesterday at the St. Mary of Annunciation church in Cambridge. Over 400 people attended, many of whom were Holmes' neighbors and classmates at Cambridge Rindge and Latin High School.

Cotto-Felix, who was a senior at Rindge, attended her own graduation via a video feed on June 7.

The Wellington-Harrington Square neighborhood has had trouble with crime in the past. The police have responded to incidents in the area over 10 times within the past two years. Police presence has increased in the area since the shooting.

Community members are calling for action. Council members at Monday's City Council meeting voted unanimously to include young people in the meeting with the police about the incident, if the meeting were to take place.

Police plan to hold to the meeting soon, now that the funeral has passed. Dan Rivello, a representative from the Cambridge Police Department, told the Globe that they wanted to give the family time to grieve.

—Jessica J. Pourian

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Changing Your Mind about Modern Physics and Energy: In the 21st Century

Mathematical Transformation of Variables Defining Space - Time and the Constant h

Silicon Valley, California

Introduction

In this model, it is shown that continuous time t and a contiguous view of spatial frames are mathematically the same in the macroscopic sense. A suggested transformation of variables presents interesting differences in concept for small and arge energies and spaces.

Perceived time can be altered relative to Earth-bound locks in regions of lower or higher gravitational orce. A series of calculation-verifications proves the heory, derives the new Planck's constant and newly lefines quantum mechanics. Black holes and their nass-radius relationship are newly defined. The chwarzschild radius is newly defined. Minimum nd maximum energies are newly defined.

From wave mechanics, we have the Schrödinger equationⁱ

 $d\psi/dt = +/- 2\pi i/h \times E\psi$ as a partial derivative and the related approximation

 $\Delta x \Delta k \ge O(1)$. This defines the uncertainty in measurements

 $\Delta x \Delta p \ge h/2\pi$.

Implying $\Delta p = m \Delta x / \Delta t$ and using a transformation for Δt , then

 $\Delta p = m \, \Delta x \, / \, \Delta(cB)$

This leads to m $(\Delta x)^2 \ge (h/2\pi J - s) (\Delta cB) = (h/2\pi J) (cB) (\Delta cB)$

 Δx)^2 $\geq (h/2\pi)(\Delta cB)(cB)$ from transformation. For a single B (events-meter^-1) the corresponding $\Delta x = b$ meters and $\Delta (cB) = 1/(cB)$

Then $b \ge (h-bar)^1/2$. Further defining b-minimum as the minimum Δx and using the positive root in this analysis, then

b(min) =1.027E-17 meters. ubject to the further justification below, we

E = F-sub- $B \times b$

Where F-sub-B = F-sub-G = the gravitational force at the spatial location of event B. And on the planet surface, F-sub-B = $ma = m \times 9.8$

Then E / m = a x b = $9.8b \text{ meters / (cB)^2 or}$ $E / m = 9.8b / (c/b)^2$ and

 $E/m = 9.8/9 (10^{-16}) b^{3} J-kg^{1},$

Or we can write the expression E/m/b^3 = 1.089E-16 Ikg^-1 or

-sub-B / m = 680 eV / kg for one cubic spatial

 $b = E-sub-B / m x (a)^-1 = 1.089E-16 / 9.8 = 1.111E-$

This should be the universal value of b and is ndependent of F-sub-G since the accelerations "g' cancel for any spatial position.

VI. Appendix D

Planck's Constant Redefined Planck's constant v h = 6.626068E-34 met $^{\wedge}$ 2 kg sec $^{\wedge}$ -1: rom the Schrödinger equation,

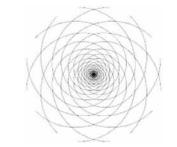
 $a = 13.6 \text{ eV} / (1^2) / v = (13.6 \text{ eV} / (1^2) / c) \times 91.2 \text{ nm}$ Then $h = (E-sub-B/c) \times (91.2E-9/50)$ Or $h = (E-sub-B/c) \times 1.82E-9$

And $h = (E-sub-B/c) \times (b \times c/1.82)$

h = E-sub-B x b / 1.82 or

 $a = e^{(-3/5)} \times b \times E$ -sub- $B = b E_B / e^{3/5}$

= 1.111E-17 meters



 E_B = E-sub-B = Earth surface barrier energy 680 eV/kg = 1.089 E-16 J/kg

And the calculated $h = 2.718^{\circ}-3/5 \times 1.111E-17 \times 1.089E-16 = 6.6E-34$ per event.

More precisely from our 3-decimal calculations and per appendices A through C,

 $h \rightarrow h(1-\Delta h)$ where $\Delta h = 0.08^{5/2}$ and h = 6.63E-34 per event or we can write $h = b E_B \kappa = b E_B (1 - \Delta h) / e^{3/5} = b E_B (Y' / p').$

Units for transformed h:

h ~ met J Kg-1 b-3 ~ met-2 J Kg-1 ~ met-2 met2 sec 2 Kg Kg-1 ~ (one B) $^{-1}$ = event-1.

VII. Appendix E

The New Nature of Quantum Mechanics

We postulate that any allowed energy quanta ha a wavelength λ = nb where n is an integer and b = 1.111... E-17 meters per the main text. For example, the 13.6eV H ground state transition

And $n = \lambda / b = 820882088$. Similarly, the H state 1 to state 2 transition is λ = 121.6nm

And n = 109450945.

An H state 3 to state 1 transition is $\lambda = 486.1$ nm and

ne energy-event \leq c / b (= 2.700E2

J-event = c^3 J-event) and quantum energy = hc/λ is defined as an integral

operation of 1/b. Then the base of all quantum mechanics is 1/b = E

and $h = h(a_G)$ and becomes a function of $F_B = F_G$.

It seems better to write the equivalent expression $E = hv = hc/\lambda$ leading to $E(J) = (b E_{BK}) \text{ event^-1 } \times c/(nb) \text{ energy-event and}$

 $E/E_B = (\kappa/n)c$ or $n E / E_B = \kappa c$

where 1 ≤ n ≤ Ko and this more clearly defines the universal nature

of quantum mechanic

Units for the ratio $E / E_B = kg$ for one spatial boundary and the free-energy-state becomes E_B (per unit mass) instead of "zero."



e Earth-surface quantum energy sum could retically be altered so that little or no energy was lost through the spatial progression."

Survey reveals senior statistics

Many going into engineering, CS, consulting, finance

Senior statistics, from Page 1

However, the main outlier regarding academic experience was about "academic advising before declaring a major," where 32.2 percent were generally dissatisfied, 11.5 percent were very dissatisfied, 41.9 percent were generally satisfied, and only 14.5 percent were very satisfied.

74.6 percent of respondents agreed that they have found a balance between academics and extracurriculars.

On matters of campus services and facilities — such as athletic facilities, library resources, counseling and health services, housing, security, and laboratories - the Class of 2012 responded largely positively. But 50.1 percent were dissatisfied with the "administration's responsiveness to student concerns," and 63.9 percent were dissatisfied with MIT's food services. Responses to extracurricular opportunities, intellectual excitement, social environment, and other aspects of campus life were also all generally positive — with the exception that 55.9 percent were "dissatisfied" or "very dissatisfied" with student government.

The senior survey results also indicated that students felt MIT helped develop skills like thinking critically, understanding and using quantitative reasoning, creating original ideas and solutions, and ability to learn on their own. On more qualitative skills, however, they rated development in writing, leadership skills, resolving interpersonal conflicts, developing self-esteem and self-confidence, and placing current problems in historical/ cultural/philosophical perspectives much lower. Most noticeably, 48.5 percent of respondents reported that since entering MIT, they have undergone very little or no improvement in reading or speaking foreign languages, which can likely be attributed to MIT's lack of a foreign language requirement.

Another 74.6 percent agreed that they have found a balance between academics and extracurriculars. 22.8 percent reported that during the fall term of senior year, they spent no time on physical fitness. Throughout their time as an undergraduate, 70.7 percent of respondents received some sort of financial aid from MIT.

Plans for the future

As of the time of the Senior Survey, 46.7 percent of seniors expected to remain in Massachusetts this fall, followed by 20 percent going to California and 7.8 percent going to New York. Of those who expected to be employed, engineering, computer science/technology, consulting, and financial services encompassed the largest percentages, with 25.8 percent, 17.4 percent, 15.1 percent, and 10 percent respectively.

22.8 percent reported they spent no time on physical fitness in the fall term of senior year.

The MIT Global Education & Career Development (GECD) is conducting a separate survey that has now been open for three weeks. According to Associate Director of MIT Career services Deborah L. Liverman, the results as of last Wednesday (at which point 50 percent of seniors had responded) indicated that 52 percent of the Class of 2012 will be working, and 38 percent will be attending graduate school. Additionally, 4 percent are enrolling in another educational program (such as a second bachelors degree or a post-baccalaurate premedical program), 1 percent are on distinguished fellowships, and 4 percent reported "other," which included traveling, postponing their employment search, or being otherwise undecided. Of the 52 percent going to work, 82 percent had accepted an offer at the time of their response. The GECD survey will remain open until the end of

HOW SATISFIED WERE YOU WITH YOUR MIT **EDUCATION?**

38% VERY SATISFIED

SATISFIED 9.6% AMBIVALENT

GENERALLY

2.6% GENERALLY DISSATISFIED



0.1% DISSATISFIED

WOULDYOU ENCOURAGE A HIGH SCHOOL SENIOR WHO RESEMBLES YOU WHEN YOU WERE IN HIGH SCHOOLTO ATTEND MIT?

PROBABLY

DEFINITELY

MAYBE

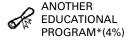
6.7% PROBABLY

DEFINITELY

WHAT WILL OUR GRADUATES BE DOING? 也也也也也也也也也也也也也也也也也 _____











*SECOND BACHELORS DEGREE, POST BACCALAUREATE PREMEDICAL PROGRAM, ETC. **TRAVELING, POSTPONING JOB SEARCH, AND UNDECIDED

AISLYN SCHALCK-THE TECH

Solution to Sudoku

8	3	6	9 5 2	1	4	5	2	7
2	9	7	5	3	8	1	6	4
1	4	5	2	7	6	9	3	8
6	5	3	8	9	1	7	4	2
7	8	1	4	5	2	6	9	3
4	2	9	8 4 7 3	6	3	8	1	5
9	6	8	3	2	5	4	7	1
3	7	4	3 1 6	8	9	2	5	6
5	1	2	6	4	7	3	8	9

Solution to Techdoku

Solution to Crossword

SWEETER SHAG DMITRI WORE DEE
RODE STEPLADDER
OVER TIDE MOODS
PEAS SPED SENSE

'Best presidency in the world' Vest offers advice to president-elect L. Rafael Reif

Selecting Reif, from Page 1

to the construction of the Zesiger Sports and Fitness Center.)

Going into the search, Zesiger said she had no idea what the faculty thought of Reif. But it turns out they were "hugely" favorable to him. The faculty had "lots of meetings. Every department. Lots of groups on campus. So we really canvassed broadly. And it all came back the same. It was extraordinary. And it was so powerful. After a while, we all knew. We all knew. It was Rafael's to lose when he came in to interview."

Chair of the Faculty Samuel M. Allen PhD '75 said he was "extremely impressed with how much faculty opinions were valued. Any fears I had about the Corporation being in charge of it were quickly allayed. The group of the faculty on the committee were superb."

Allen went on to say that student opinions were valued as well, but that he expected that, because "I've heard in the past search it was extremely valuable." So, interestingly enough, the faculty chair was confident students would have a say, and worried about the faculty's clout.

Asked whether there was dissent in the search process, Allen

About student input, Allen said "it seems like we had input from them right before we had the interviews."

Corporation Secretary Kirk D. Kolenbrander said that the process was able to go so fast because "we had engaged in such a thorough understanding

of where the institution was and wanted to go in 2004," referring to the search for Hockfield. Kolenbrander managed the search processes that chose both Hockfield and Reif. The people who managed those earlier searches, such as for Vest in 1990, were all gone by the time of the 2004 search.

Why the focus on an internal candidate? Kolenbrander said "every audience we spoke with, every time we assembled an individual or a group, we heard a vearning for someone who understood the institution. That wasn't true in 2004. It may well not be true in 2019, in whatever the year will be. It was true in

Vest, Hockfield's predecessor, offered this advice to Reif: "Be yourself."

Vest offers advice

Vest, Hockfield's predecessor, offered this advice to Reif: "Be yourself." While he calls it "a little bit on the corny side," Vest says: "if you just be yourself, this community knows they're getting the real deal and they'll rally behind you and help you out. And also, you know, the success anybody has in a university presidency lies in exactly what Rafael said today: be a great listener."

Vest said, on the day of the Reif announcement, "I'm just delighted. It was a wonderful outcome, and everybody I've talked to today from groundskeepers to faculty members as I've been wandering around, are just thrilled."

Asked what he'd learned in the past seven years, as he has served as President of the National Academy of Engineering, Vest said: "The main thing I've learned is what I already knew. This is the Greatest Place on Earth. And all of us who have been here and are either temporarily or permanently elsewhere miss the energy and honesty and the openness and willingness to take on big challenges. This is the best presidency in the world because our faculty don't have time for the silly kind of politics. They're busy being the best in the world at whatever they are."

Corp. Executive **Committee structure**

The MIT Corporation — the 72-member board of trustees is led by its Executive Committee, which includes the MIT president, the corporation chairman, the treasurer, and nine other members. It meets ten times per year and pays close attention to the management of the Institute.

Today, the President of MIT leads the executive committee, but that might change.

According to Zesiger, who serves on it, there's been a recent "discussion that it might be a good idea" to have the chairman of the Corporation run executive committee meetings.

That's how it was prior to World War II, she said. "It's some way of making sure that there are different points of view," Zesiger

House's suit against US marches forward

Attorneys have agreed upon a schedule in House v. Napolitano, where David M. House is suing the federal government because they confiscated his laptop at a border crossing and held it for 49 days. The case is in Massachusetts federal district court.

House is a Boston area computer programmer who was employed by MIT at the time of the seizure, in November of 2010; he is the founder of the Bradley Manning Support Network.

Fact-based discovery should complete by March 2013, and expert witness discovery by June of 2013. Discovery is the process of obtaining evidence from the opposing party

prior to trial.

Also, as required by the court's local rules, House proposed a settlement to the government earlier this month. House's attorney, Catherine Crump of the American Civil Liberties Union (ACLU), was uncertain whether she was permitted to disclose the settlement offer publicly.

The government will present its response to the settlement offer at a scheduling conference on Monday, June 18, 2012. Judge Denise J. Casper will also approve or alter the proposed schedule at that conference, and issue a formal scheduling order.

House filed his suit in May of 2011, but it stalled until April of 2012 as the court determined to dismiss the case at the government's request. Casper decided against dismissal in March

One current case that may affect House is United States v. Cotterman, which is being re-argued on appeal before the Ninth Circuit Court of Appeals next week Tuesday, June 19. This appeal is an en banc hearing, meaning it is before the chief justice and ten other judges, rather than a three-judge panel, as it was before.

In Cotterman, Howard W. Cotterman's laptop was searched, child pornography was found in unallocated disk space, and he was arrested. (Unallocated disk space is free space not assigned to any file; it may include previously deleted files or deliberately hidden information.)

An Arizona court found in favor of Cotterman and suppressed the evidence, but the Ninth Circuit reversed that decision. Now the Ninth could reverse itself again.

The two judges who voted against him are not on the new randomly-selected panel, but the one judge who voted for him is.

Since the last decision in Cotterman, the Supreme Court unanimously decided United States v. Jones, ruling that warrantless GPS tracking violated the 4th amendment. Five of the court's judges explained that the practical protections of privacy in the pre-computer times were privacy's greatest protections.

According to court filings, attorneys arguing for Cotterman intend the same argument — that searching the hundreds of gigabytes that a laptop holds would never have been practical in the pre-laptop age, and thus they should not be permitted in the modern era either.

Cotterman's side will be argued by William J. Kirchner, Cotterman's attorney, as well as Christopher T. Handman, who represents The Constitution Project, a civil liberties advocacy group. Kirchner, who has never argued an en banc rehearing before, said Handman was terrific and that "he's a really great lawyer who is going to add a lot of perspective."

— John A. Hawkinson

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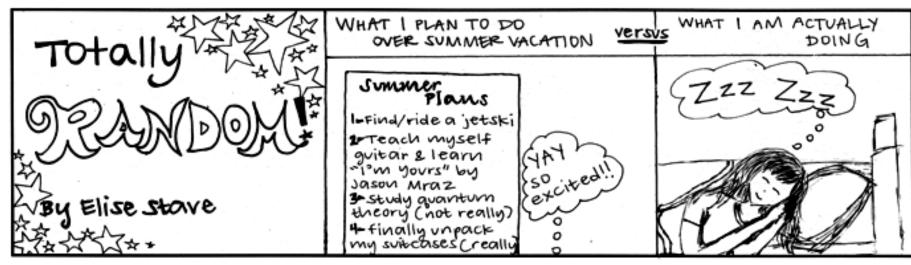
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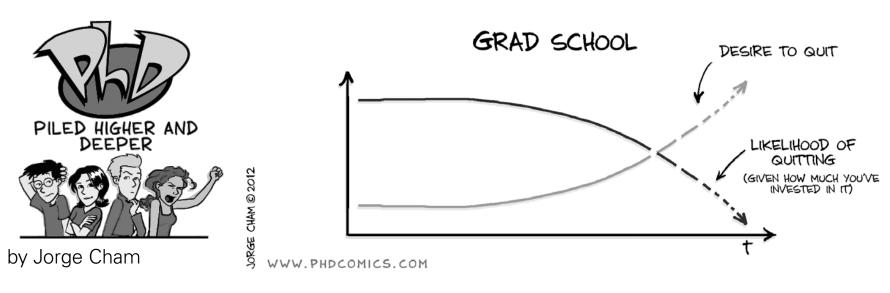
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Take a hike by Norma Steinberg

Solution, page 8

ACROSS

- 1 Minnesota claim to fame 6 Ex-caterpillar
- 10 Coffeehouse amenity
- 14 Verdi genre
- 15 Fencing weapon 16 Starting on
- 17 Neither sink nor swim
- 19 Camera's eye 20 Go one better
- 21 Spanish surrealist
- 22 Manage somehow 24 Without a contract
- 26 "Cedar" furniture
- 28 Boats like Noah's
- 30 Sidewalk covering 34 Anti-drug cop
- 37 Shout out
- 39 Miscue
- 40 Like some college walls 42 Thanksgiving mo.
- 43 University of __ Dame
- 44 Sheriff's gang
- 45 Oil cartel
- 47 Takes advantage of

- 48 More sugary
- 50 Long-napped rug
- 52 Houston's home
- 54 '60s UN head
- 58 Composer Shostakovich
- 61 Had on
- 63 Poor grade
- 64 Went on horseback 65 House painter's need
- 68 Finished
- 69 Skipper's concern
- 70 Temperaments 71 Small green veggies
- 72 Went too fast
- 73 Mental faculty

DOWN

- 1 State-run game
- 2 Chef's covering
- 3 Doesn't throw out
- 4 Important period
- 5 Less happy
- 6 Ground grain
- 7 Eye-related
- 8 Collarless shirt

- 9 Greek's Mercury
- 10 Preliminary rehearsal
- 11 "Got it now"
- 12 Affectionate
- 13 In that case 18 Madcap
- 23 Colorado resort
- 25 Cutting-edge people 27 Cuts by 50%
- 29 Mexican missus
- 31 Letters' partner
- 32 Legendary tales 33 Very, in Versailles
- 34 Little bites
- 35 Declare openly 36 React to yeast
- 38 Sever, with "off"
- 41 Discourage
- 46 Boorish one
- 49 ls
- 51 Elite groups 53 Alfred Nobel, e.g.
- 55 Affix
- 56 Cries out for
- 57 To the point

16 17 19 20 21 22 23 24 26 31 |32 |33 28 40 43 42 44 45 48 52 55 | 56 | 57 61 62 64 65 66 68 69 70 71 72 73

58 Steep slope 59 Change residences 62 Pundit page 66 Hint

67 Female antelope

Sudoku

Solution, page 8

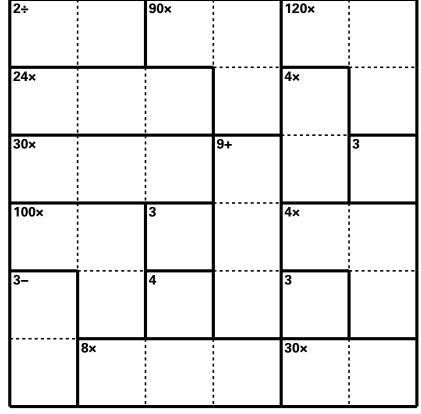
	3			1	4		2	
2			5			1		
		5	2				3	8
6					1	7		
			4	5	2			
		9	7					5
9	6				5	4		
		4			9			6
	1		6	4			8	

Instructions: Fill in the grid so that each column, row, and 3 by 3 grid contains exactly one of each of the digits 1 through 9.

Techdoku

60 Theory

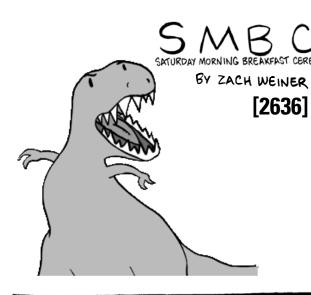
Solution, page 8



Instructions: Fill in the grid so that each column and row contains exactly one of each of the numbers 1-6. Follow the mathematical operations for each box.

Wednesday, June 13, 2012

The Tech 11

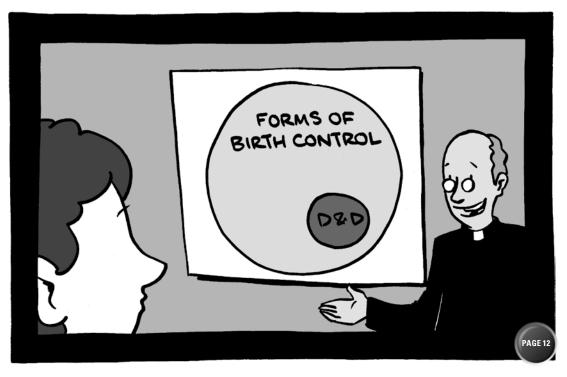


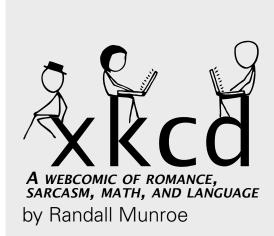


WHAT? OH, SON, THAT'D BE CRAZY. WE DON'T OPPOSE DUNGEONS AND DRAGONS FOR THOSE REASONS.



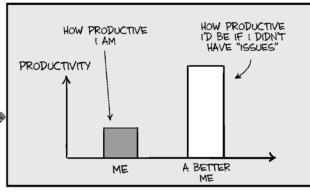






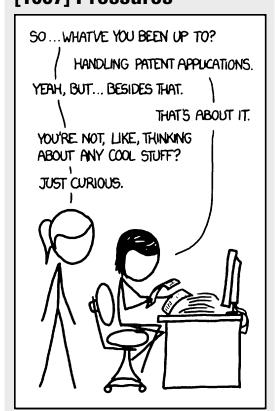


by Jorge Cham





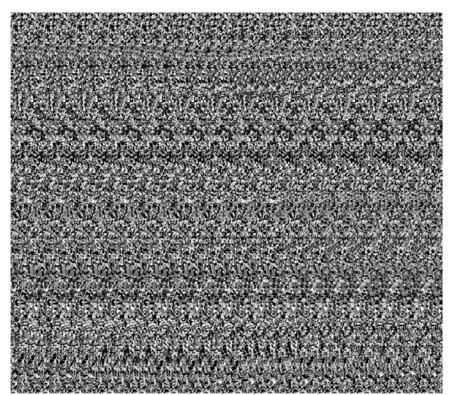
[1067] Pressures



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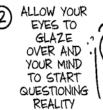


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Heat and Thunder face off in 2012 NBA Finals

Both teams bounce back from difficult seasons; who will take the championship?

By Nidharshan Anandasivam SPORTS STAFF

The 2012 NBA Finals features the two valiant number two seeds: the Miami Heat from the East and the Oklahoma City Thunder from the West. Both teams have had to

battle back in the previous rounds in order to arrive here at this point. The Heat trailed 2-1 in the Eastern Conference Semifinals against the Indiana Pacers before winning three in a row to wrap up the series. They were also down 3-2 in the Eastern Con-

ference Finals against the Boston Celtics before winning two straight to thrust themselves into their second straight NBA Finals.

The Thunder, after cruis-

ing through the first two rounds of the 2012 Playoffs, trailed 2-0 against the top-seeded San Antonio Spurs. While many thought this deficit was too much to rally back from, especially considering that the Spurs were sporting a 20-game winning streak at the

time, the Thunder won four in a row to clinch a Finals berth.

The Thunder franchise, which began in 2008, has improved its performance significantly from its initial 23-59 regular season record in 2008 after moving from Seattle.

After finishing 50-32 during the 2009-2010 turnaround season, the Thunder made it all the way to the Western Conference Finals during the 2010-2011 season, losing to the eventual champions: the Dallas Mavericks. Their rapid success could probably be attributed to their phenomenal

Whichever squad can figure out how to play efficient basketball will find themselves the victors.

draft picks over the years, including Kevin Durant (UT), Russell Westbrook (UCLA), and James Harden (Arizona State), who now form the backbone of the team's

The Miami Heat, after adding LeBron James to the roster in 2010, heightened their championship-winning expectations, but have not delivered yet. Will this be their year? Will this be the year Wade and James both step up during the fourth quarters of the Finals and display their athletic talents in the clutch? Or will the younger Kevin Durant, who has made so many clutch baskets throughout these Playoffs, find

his first ring? These two teams split their two regular season games, each winning at home. During these games, the notable stars (James,

Wade, and Bosh of the Heat and Durant, Harden, and Westbrook of the Thunder) were the prolific scorers. However, success in this series will probably rely heavily on overall team defense. Serge Ibaka of the Thunder will need to have a presence in the paint to deter the penetration of Wade and James, and defensive specialist Thabo Sefolosha will need to match the quickness of the Heat. For the Heat, Shane Battier and Mario Chalmers will need to keep up with the driving and shooting of the Thunder. Although both teams

have stellar defenses, offensive firepower should dominate, and most games will probably be decided in the waning moments. The series promises to

showcase some exciting oneon-one match-ups, but whichever squad can figure out how to play efficient team basketball offensive ball movement and defensive rotations - will find themselves the victors.

"There and back again:" From home to home

The journey to my hometown reveals happiness and excitement in unexpected ways

By Stan Gill

If there's one thing everyone seems to get excited about at the end of the semester, it's about going away. Although no one likes moving, whether to go home or travel to some foreign land for an internship, the vast majority of people are ecstatic about getting out and away.

I wasn't. In fact, I was sort of dreading it.

Last summer I was at home, working for my mom's new company. While I love my mom and I loved the experience of working in that environment, I discovered that working from home, despite being a career luxury that many people aspire to have, is not something that I enjoy.

Why? I still had to live by my parents' rules and still had to

deal with my siblings. I love my high school friends, but I didn't get to have the fun experience of meeting new people everywhere I went like I did at MIT. Seeing

Being at MIT was like wearing a shirt that your parents bought you when you were 12 and said that you would grow into it.

all the Facebook posts from my friends out doing productive things with their UROPs or internships and hanging around in Boston didn't help either.

I felt like I had been sent back to high school.

MIT taught me more than 18.03 and 3.091 my freshman year; it taught me how to be independent, and I enjoyed it. I loved being able to take care of myself, make my own commitments, and really discover the

Being at MIT was like wearing a shirt that your parents bought you when you were 12 and said that you would grow into it. It was a little roomy at first, kind of intimidating, and not that likable to begin with (especially sitting through 8.01), but eventually you grow to like it. Before you know, it fits like a glove.

As I sat on the plane going back to Arizona, I was both happy that I was getting a break and secretly loathing that I was going to be stuck in my boring hometown for a week and a half.

then something happened.

I was sitting around playing video games one day. I hadn't planned much to do, and I just placed myself in the shoes of my family and friends; how did they feel that I was coming back? The

As I continued to have great times hanging out with my old friends and family, I realized I actually didn't want to leave.

truth is, they all love seeing me, even if I'm not the most excited to see them at that moment. Especially from my little sister, you could see the excitement and joy

in her eyes that her brother was back at home. That kind of emotion from someone close to me is something I couldn't help but reciprocate. As I continued to have great times hanging out with my old friends and family, I realized that I actually didn't want to

I chose to go to MIT because the people and places made me feel at home. Even though I'm only halfway done here, I came to realize that I had forgotten that my parents' house is also my home. The short vacation I took, even though I was apprehensive about it at first, was one of the best ones I've ever had.

Going back home is hard and leaving home is hard, but I'm glad I did. If I hadn't left my first home two years ago, I would never have discovered what I now know to be my second home.

Congratulations, 2012 graduates!

Graduation to do's:

Cap and gown

Cardboard boxes

Packing tape

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from page 11

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